



# Invasive Species Centre

ANNUAL  
REPORT  
**2017**  
Fiscal Year

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*"Alone we can do so little,  
together we can do so much."*

*– Helen Keller*

This quote embodies all that the Invasive Species Centre represents. It was built on a foundation of partnerships. In 2016-17 we took those partnerships to new heights by enhancing our relationships with provincial and federal governments, municipalities, our NGO partners, and citizens. With a shared goal of taking effective steps towards battling invasive species, we saw our partnerships grow to make significant achievements towards this goal. Our staff support continues to grow as we develop the expertise and skills needed to accomplish the important work our partners and supporters identify in Canada and beyond.

We are very grateful to our funders and supporters who enabled us to take the necessary steps to expand our network over the last year and to undertake so many significant projects. We have a committed team of directors and staff who continue to go above and beyond to support the work that we do.

We encourage you to read this annual report to learn more about the work that we do with our partners at the Invasive Species Centre, and to learn more about how you can be a part of it!

**Executive Director, Tracey Cooke**  
**Chair of the Board, Dr. Kandyd Szuba**

# Who we are

The Invasive Species Centre was founded by the Governments of Canada and Ontario to act as a hub for collaboration and knowledge sharing between stakeholders. Incorporated as a not-for-profit in 2011, the Invasive Species Centre (ISC) has grown into a respected collaborator, knowledge broker, partner, and leader in invasive species research and action in Canada and beyond.



Invasive  
Species  
Centre

# What we do

## Our Mission:

The Invasive Species Centre connects stakeholders, knowledge and technology to prevent and reduce the spread of invasive species that harm Canada's environment, economy and society.

## Our Vision:

The Invasive Species Centre's vision is a Canada where land and water are protected from invasive species.

## Our Values:

**SUSTAINABILITY** - helping natural resources last for future generations

**COLLABORATION** - drawing on all stakeholders to achieve success

**CREDIBILITY** - using a consistent, evidence-based approach

**PROFESSIONALISM** - maintaining dedication to excellence in management and delivery

**EFFICIENCY** - breaking down organizational silos and reducing overlap

# How we do it

The Invasive Species Centre achieves its mission and vision by **connecting** with a broad array of stakeholders to **catalyze** invasive species management, and **communicate** policy and science knowledge.



Connecting  
Stakeholders



Catalyzing  
Invasive Species  
Management



Communicating  
Policy and Science  
Knowledge

# Impacts 2016/2017

The Invasive Species Centre measures and tracks the impacts of our work and progress year-over-year using key performance indicators. The ISC achieves its mission by:



## THE INVASIVE SPECIES CENTRE: COMMUNICATIONS HIGHLIGHTS

- ◆ **Invasive Species Awareness Week (ISAW):** The ISC partnered with 32 organizations to promote various invasive species topics every day for a week. #InvSpWk was trending on Twitter with more than 5 million impressions between all ISAW participants!
- ◆ The ISC hosted a month-long campaign to support the launch of the Ontario Invasive Species Act showcasing restricted species and why they pose a threat to Ontario's ecosystems.
- ◆ The ISC supports and promotes the OMNRF's digital marketing campaigns, including the #invasionON social media campaign that targets anglers, boaters, cottagers, gardeners, and hunters in Ontario. The ISC featured the #invasionON campaign content on its corporate website, in its social media, in the 2016 summer and fall newsletters and on print materials shared at events and with community partners.



### CONNECTING

Building relationships, engaging stakeholders, coordinating and supporting invasive species management projects and knowledge.

- ◆ **224** stakeholders consulted
- ◆ **755** knowledge transfer & training event attendees
- ◆ **33** new network partners



### CATALYZING

Sparking evidence-based discussion, developing actionable recommendations, identifying needs for knowledge tools, and resources.

- ◆ **8** general policy impacts
- ◆ **18** risk assessments
- ◆ **15** best management practices
- ◆ **7** official government document citations
- ◆ **1** political communication citation
- ◆ Participation in **3** stakeholder consultations
- ◆ Briefings & presentations to **50** government officials



### COMMUNICATING

Bridging science, policy, and public discourse; transferring policy and science knowledge to the broader public.

#### Digital & Social Media:

- ◆  Web activity #users: **31,197**
- ◆  Twitter Followers: **3,646**
- ◆  Facebook Likes: **1,248**
- ◆  LinkedIn Followers: **164**
- ◆  YouTube views: **175**
- ◆  # of web page views: **86,797**
- ◆  Email opens on distribution: **10,288**

#### Media Mentions: 37

- ◆  Public presentations: **1,671**
- ◆  Exhibit/display attendees: **2,935**

# Policy and Invasive Species Management

## Legislation Impact: The Invasive Species Act

*"The Invasive Species Centre was instrumental in the creation of Ontario's Invasive Species Act, which is helping us to quickly identify and respond to invasive species, like phragmites, and fight these species in communities across this province. We are proud of our strong relationship with the ISC and I look forward to continuing our efforts to protect our environment and economy."*

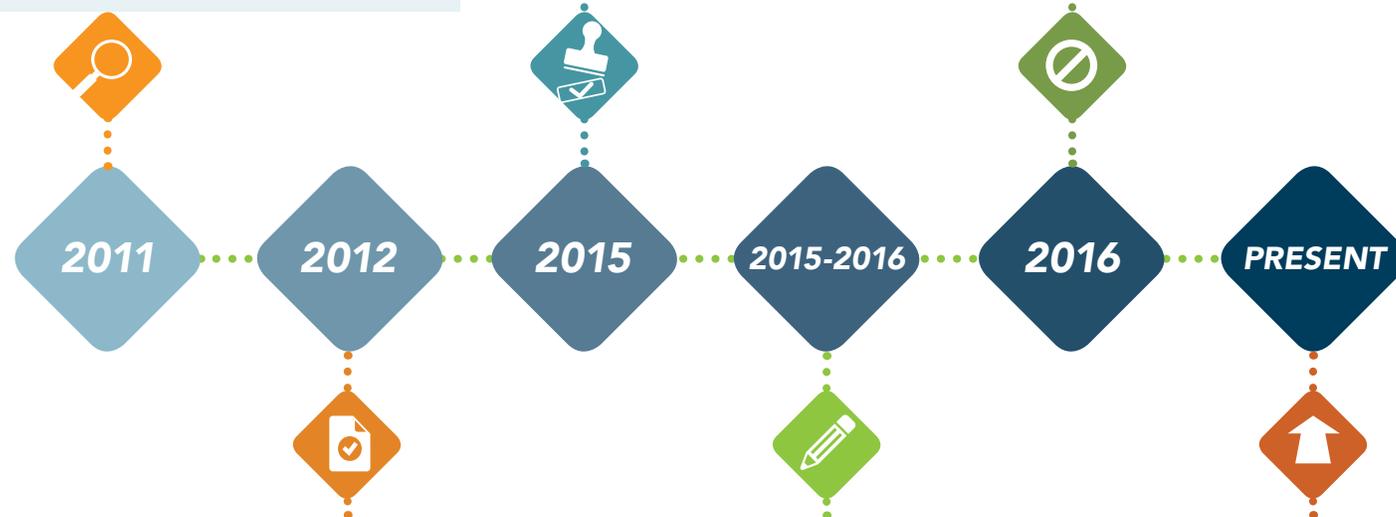
– Hon. Kathryn McGarry, Minister of Natural Resources and Forestry

## All Hands on Deck: The Invasive Species Act

As requested by the Ontario Ministry of Natural Resources and Forestry (OMNRF), the ISC commissioned research that identified gaps in invasive species legislation and policy which helped the OMNRF support the need for stand-alone legislation dedicated to invasive species.

With input from many stakeholders, the legislature passed the Invasive Species Act on November 3, 2015. To become effective, regulations classifying species were required.

The Invasive Species Act became law on November 3rd, 2016. The Act provides the power to make regulations prescribing invasive species and classifying them as either prohibited or restricted.



The Ontario Invasive Species Strategic Plan laid out the political framework to address invasive species threats.

The ISC prepared ecological and socio-economic risk assessments and analyses for the OMNRF to help them define prohibited and restricted species and brought together experts to review this work.

The ISC continues to support the province by writing risk assessments and analyses on priority species, to prevent the intro and spread of invasive species.



## Assessing risk to set priorities: risk assessments and expert review

The Invasive Species Centre (ISC) conducts risk assessments or analyses of the potential risk that non-native species could have on ecological, social, and economic values. The assessments allow the transfer of science to policy to influence legislation. This year, they were used by the Ontario Ministry of Natural Resources and Forestry (OMNRF) to help determine which species were regulated under the Invasive Species Act.

Risk assessments were conducted on common yabby, European water chestnut, hydrilla, stone moroko, grass carp, black carp, silver carp, and bighead carp.

The ISC conducted a peer review workshop with experts to determine the ecological risks of Brazilian waterweed and parrot feather. The information gathered from the workshop helped identify potential impacts to Ontario's ecosystems if these species were to become established, and allowed these species to be prioritized as prohibited in Ontario based on their level of threat.

## One stop shop: risk assessment database

The risk assessment database is an accessible, searchable version of a report prepared for the OMNRF in 2015/2016 that showcases invasive species risk assessments and risk assessment methodologies used by Canadian and U.S. government organizations. The online database provides a record of the risk assessments that have been done by such organizations. The ISC will continue to expand and update this tool to ensure all relevant risk assessments are included, from both government and non-government sources.

### To date, risk assessments completed by 10 organizations are included in the database:

- ◆ Ontario Ministry of Natural Resources and Forestry
- ◆ Canadian Food Inspection Agency
- ◆ Department of Fisheries and Oceans
- ◆ Natural Resources Canada
- ◆ U.S. Fish and Wildlife Service
- ◆ U.S. Department of Agriculture
- ◆ Canadian Council of Forest Ministers
- ◆ European Commission
- ◆ New York Invasive Species Information
- ◆ Indiana Invasive Species Council



## The Invasive Species Centre's Online Database

The Invasive Species Centre's online, accessible, searchable database makes it easy for users to find assessments with similar styles that can be customized to their jurisdiction.

[www.invasivespeciescentre.ca/LEARN-ABOUT-INVASIVE-SPECIES/Risk-Assessments](http://www.invasivespeciescentre.ca/LEARN-ABOUT-INVASIVE-SPECIES/Risk-Assessments)

## Invasive species and our cities: economic impacts on municipalities

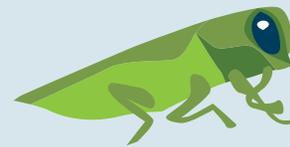
The ISC surveyed municipalities across Ontario to learn about their costs for invasive species management, control, and prevention. The survey results were analyzed by an environmental economist:



Based on a sample of 35 Ontario municipalities, **77%** of invasive species budgets were spent on **control and management activities**, as opposed to prevention and detection.



Estimated costs for municipalities alone is **\$55M** annually, an average per capita expenditure of **\$2.95 per person**.



Respondents reported an actual total expenditure of **\$15,898,000** on **emerald ash borer** in 2016.

Other species identified as top priorities for municipal spending were:



Giant hogweed



Phragmites



Garlic mustard



Common buckthorn

The ISC will continue to work with municipalities and other levels of government to gain insight into the economic impacts of invasive species on municipalities and use this information to design projects that will support their work wherever possible.



# Aquatic Health

## Access and availability: aquatic herbicides workshop and pesticide registration report

The Invasive Species Centre (ISC) acts as a coordinating body for improving access and availability of pesticides for invasive species control. Partnered with the Ontario Ministry of Natural Resources and Forestry (OMNRF) and Aquatic Ecosystem Restoration Foundation (AERF), the ISC hosted an Aquatic Herbicide Workshop in Ottawa to discuss the current registration process and the need for aquatic herbicides to manage invasive aquatic plants in Canada. This workshop brought together individuals from provincial and federal agencies, national conservation organizations, industry, and expertise from the United States Environmental Protection Agency. As a result of the workshop, a pesticide registration report that provides an overview of the current registration process for pesticides, was updated to reflect the challenges of the current registration process of pesticides used to control invasive species. The ISC continues to work on this project with the goal of improving access and availability of pesticides for invasive species control.

## Know your options: aquatic invasive species response assessment

The aquatic invasive species (AIS) response assessment, prepared for the Ontario Ministry of Natural Resources and Forestry, reviewed all management options for AIS in Ontario. It examined control methods used in other jurisdictions, as well as in Ontario, creating a better understanding of what control methods work well and when they should be used. The AIS response assessment provided management tactics for removing an invasive species from a water body. These tactics can be matched and applied to new invasive species that have similar characteristics.



The Invasive Species Centre can inform future discussions regarding rapid response options for AIS management in Ontario and beyond because of the AIS Response Assessment.



ASIANCARP.CA

asiancarp.ca  
carpeasiatique.ca



## Protecting the Great Lakes Basin: Asian Carp Canada

Through the Asian Carp Canada program, the Invasive Species Centre (ISC) provides resources, information, and news regarding Asian carp developments in Canada. The ISC engages and informs discussion about the threat of Asian carps to the Great Lakes Basin and builds practical management tools.

The Invasive Species Centre partners with Fisheries and Oceans Canada (DFO), the Ontario Federation of Anglers and Hunters (OFAH), and the Royal Ontario Museum (ROM) to increase awareness of Asian carps and key prevention and monitoring techniques.

## Face-to-face events

Through the Asian Carp Canada program, the ISC hosts public information events that engage stakeholders in key geographic areas that are at risk of invasion. These events bring experts, government, NGOs, and the interested public together to discuss Asian carps and create opportunity for the ISC to engage in-person with new audiences and expand information outreach opportunities.

The ISC hosted public open houses focused on Asian carps education and awareness in coordination with DFO, OMNRF, and the OFAH.

## Digital Engagement

- ◆ The Asian Carp Canada online webinar series joins academics, government, and interested individuals for digital events. The greater geographic reach of digital presentations harnesses a large audience who will help keep Asian carps from establishing in the Great Lakes. Topics covered this year were food web impacts, grass carp initiatives in Ohio, the Binational Ecological Risk Assessment for Bighead Carp, and Confused with Carp.
- ◆ The Asian Carp Canada website, housed and curated by the ISC, features more resources and tools than ever before including Confused with Carp (listing commonly misidentified native species with the key identification features to differentiate them from Asian carps), Research

in Progress (recent Canadian scientific research), and a summary of the Binational Ecological Risk Assessment for Bigheaded Carps.

- ◆ ISC Asian Carp Canada staff created three targeted social media campaigns that addressed knowledge gaps specific to Asian carps. The campaigns had significant reach on social media platforms, and received an award for innovation in web and social media:



Using Facebook, Twitter and Google Ads as platforms to share information, the ISC reached **491,791** individuals.



**Confused with carp** (winner of the SSMARt Innovation Award for Innovation in Web and Social Media)



Knowledge Surveying



World Water Week



**HIGHLIGHT:**

- Web activity #users: 10,082
- # of website views: 22,336
- Twitter Followers: 606
- Facebook Likes: 355

**GRANTS FOR AQUATIC INVASIVE SPECIES**

Funding third party invasive species research and projects that advance innovations in control, preparation and promotion of best management practices and strategies, invasive species management and control through government, non-profit, and academic institutions – funded and directed by the OMNRF.

- Control and eradication of water soldier**  
**Partner:** OFAH
- Support research on the biology of water soldier to inform detection, control and eradication**  
**Partner:** Trent University and the U.S. Army Research and Development Center
- Support research on the efficacy of alternate aquatic herbicides in the control of water soldier**  
**Partner:** Aquatic Ecosystem Restoration Foundation (AERF)
- Control and eradication of European water chestnut (Rideau River)**  
**Partner:** Ducks Unlimited Canada
- Coordinate a national workshop on aquatic herbicides**  
**Partner:** Aquatic Ecosystem Restoration Foundation (AERF)



# Forest and Lands Health



## The roads most travelled: national firewood pathway analysis

In 2017, the Invasive Species Centre (ISC) conducted a pathway analysis on the movement of firewood within Canada (commercial and recreational) to document the risks of invasive species spread and identify gaps and recommendations to effectively address those risks. This work was completed at the request of the Canadian Council of Forest Ministers, Forest Pest Working Group (FPWG), and builds on previous work completed by the province of Manitoba.



The pathway analysis identified early actions that can be taken to mitigate the spread of invasive species through the movement of firewood in Canada.

### The report:

- ◆ Categorizes the risk associated with the firewood pathway by exploring existing risk assessments, research around domestic movement and procurement processes;
- ◆ Reviews current risk mitigation associated with the firewood pathway within Canada and the United States;
- ◆ Highlights the gaps in firewood pathway risk management and communication, and provides recommendations to close these gaps through a coordinated approach to address potential outreach, regulatory and voluntary measures associated with firewood movement within Canada.

### Some of these recommended actions include:

- ◆ Deliver a national public outreach campaign to raise awareness of the risks among Canadians;
- ◆ Develop and distribute targeted best management practices for major links along the firewood supply chain (producers, vendors);
- ◆ Conduct surveys of private firewood distributors, roadside sellers and private campgrounds to address knowledge gaps;
- ◆ Conduct surveys of Canadian consumers of firewood to establish a baseline knowledge of the issue.

## Knowledge is power: Forest Invasives website and Canadian Food Inspection Agency information sharing

The ISC proactively collaborates with partners to share information efficiently. The ISC and the Canadian Food Inspection Agency (CFIA) created a space for sharing regulated area information. Using EDDMapS Ontario – the open data source for mapping and distribution of invasive species in Ontario – the ISC facilitated the integration of CFIA's regulated area information for Asian longhorn beetle, emerald ash borer, European gypsy moth, and detection locations of hemlock woolly adelgid to the EDDMapS Ontario website.

The ISC's Forest Invasives website ([forestinvasives.ca](http://forestinvasives.ca)) is a hub for information about invasive forest species and also houses information shared from the CFIA. Using the website and social media platforms, the ISC uses targeted campaigns to inform the public about regulated species. The collaboration between the ISC and CFIA is a notable example of public-private teamwork.



**DID YOU KNOW?**

*The ISC's Forest Invasives website features an Experts' Corner! Subscribe and learn about invasive species from the experts!*



**A growing concern: hemlock woolly adelgid**

To analyze the current hemlock woolly adelgid (HWA) situation in Ontario, the ISC examined current practices of the CFIA and its partners, and conducted interviews with:

The Ontario Ministry of Natural Resources and Forestry (OMNRF)

Natural Resources Canada, Canadian Forest Service

Ancient Forest Exploration and Research

City of Toronto

City of Ottawa

Credit Valley Conservation

Municipality of York

Niagara Parks Commission

Ontario Federation of Anglers and Hunters

Ontario Invasive Plant Council

Parks Canada

Quality Deer Management Association

Silv-Econ

Town of Oakville



*Our analysis of the HWA situation identified gaps in knowledge and action and provided recommendations for developing an effective, actionable management plan for HWA.*

**Getting out ahead: mountain pine beetle risk analysis**

The ISC is conducting an ongoing risk analysis project to determine the risk of mountain pine beetle (MPB) to Ontario. A pest risk analysis approach combines a classic risk assessment with risk response and risk communication to provide comprehensive information about the risk of the pest, in addition to mitigation and management options.

Building on the expert review meeting from early 2016, the ISC hosted a workshop to further explore the risk of MPB. Participants included the OMNRF and NRCan technicians and researchers, academia, and forest industry experts from B.C., Alberta, and Ontario, bringing national perspectives to the discussions.



*A pest risk analysis better informs and enables rapid response.*

In addition to formal workshops, the ISC shared the goals and outcomes of this project at several national and international events.

The MPB risk analysis identified tactics to prepare for and lessen the impacts following a potential MPB detection. The risk analysis broadened MPB knowledge and capacity in Ontario, and applied principles of incident command structure for emergency response to an invasive species scenario.

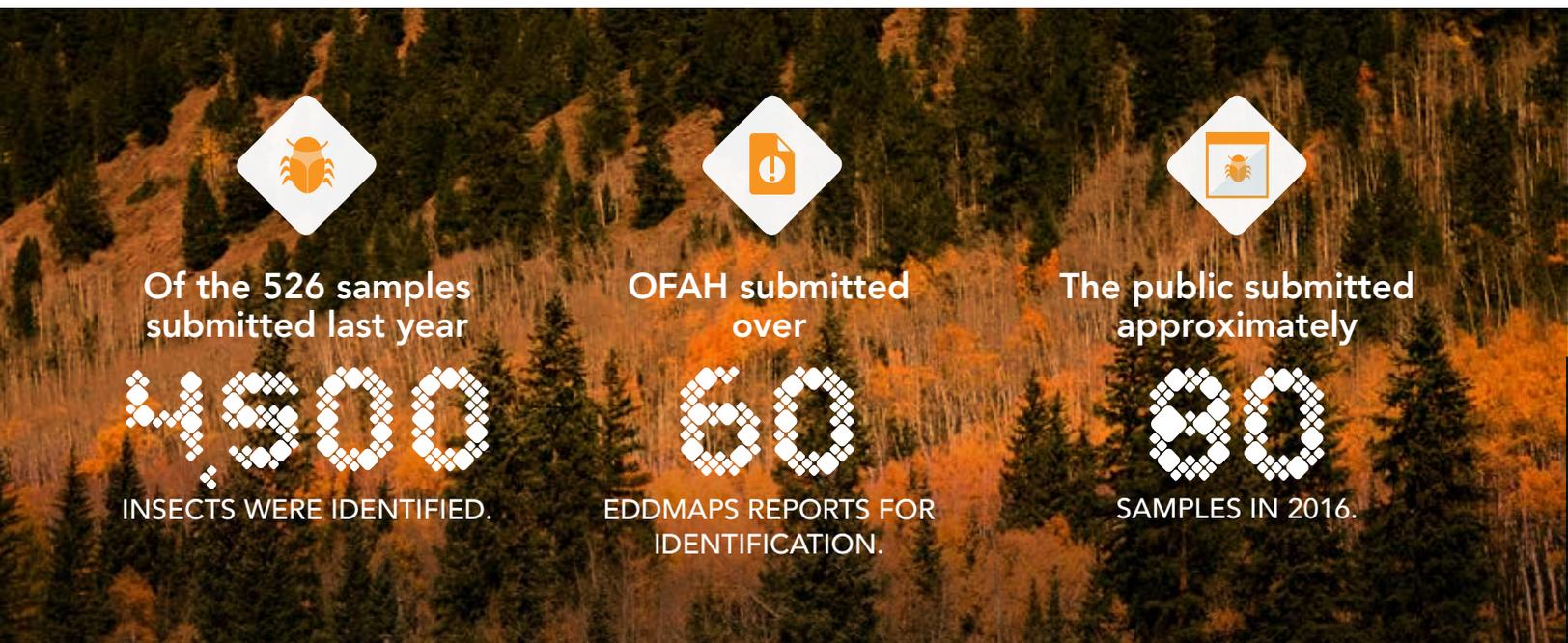


**The ISC and partners assessed the threat of MPB and Ontario's capacity to respond to a potential MPB introduction**

## Insect diagnostics: what's in your forest?

Insect diagnostics—identifying and cataloguing insects submitted to the Invasive Species Centre's lab—contributes to the sustainable management of Canada's forests by providing reliable identification of both native forest insects and non-native invasive alien insect species to researchers on priority forest insects.

The ISC's Insect diagnostician works closely with the OMNRF to identify all insects for the Ontario Forest Health Program by confirming ground truth and mass trap surveys that are conducted to collect insects that may be a potential threat to Ontario and Canada (i.e. emerald ash borer survey, walnut twig beetle survey, mountain pine beetle survey, Nitidulidae survey).



## GRANTS FOR FOREST AND LANDS HEALTH

Funding third party invasive species research and projects that advance innovations in control, preparation and promotion of best management practices and strategies, invasive species management and control through government, non-profit, and academic institutions – funded and directed by the OMNRF.

Support for biocontrol research to control invasive plants

**Partner:** University of Toronto

Support for municipal engagement for invasive plants

**Partner:** Ontario Invasive Plant Council

# Citizen Science

## In my backyard: Early Detection and Rapid Response Network



EARLY DETECTION  
& RAPID RESPONSE  
NETWORK ONTARIO

[edrrontario.ca](http://edrrontario.ca)

The Early Detection and Rapid Response Network Ontario (EDRR Network) is training communities in the fight against invasive plants and insects by equipping a network of citizen scientists with the skills and tools to identify, detect, monitor and control invasive species.

The EDRR Network is focused on providing opportunities for community leaders and network volunteers to get hands on experience in invasive species monitoring, reporting and control.

### The Invasive Species Centre coordinated volunteer activities



Garlic mustard surveys and pulls in Sault Ste. Marie, Thunder Bay, and Mississauga



Emerald ash borer detection surveys in Thunder Bay



An invasive species workshop at Sheridan College



Asian longhorn beetle demonstrations in Georgetown and Sault Ste. Marie



Dog strangling vine surveys and removal in the Halton Region

The EDRR Network brings together provincial and municipal governments, environmental NGOs, and local citizens to identify and address invasive species concerns in four regions across Ontario.



For the first time in Ontario, trained citizen scientists identified priority invasive species that have yet to establish regional populations.



Thanks to funding from the Ontario Trillium Foundation, this collaborative approach has resulted in new species detection and control efforts.



Through regular workshops and events, the EDRR Network has provided a forum for volunteers and professionals to share experiences and collaboratively address invasive species issues facing their communities.



Since its inception, the EDRR Network enables the Invasive Species Centre and the Ontario Invasive Plant Council to educate the public on important invasive species concerns, while affecting positive environmental change through monitoring and control efforts.

# Events



## Global advances in research and management: 19th International Conference on Aquatic Invasive Species

The International Conference on Aquatic Invasive Species (ICAIS) is widely considered the most comprehensive international forum on aquatic invasive species. The Invasive Species Centre is the ICAIS Secretariat and brings together leaders from academia, industry, government, NGOs, and other stakeholders to address new and emerging aquatic invasive species issues by sharing research and policy developments and innovative ideas through presentations and opportunities for collaboration.



**ICAIS welcomed 235 conference participants representing 13 countries** to Winnipeg from April 10-14, 2016. The conference theme was "Global Advances in Research and Management of Aquatic Invasive Species." The final program and many of the presentations can be viewed at [www.icaiss.org](http://www.icaiss.org).

## A challenge to the environment, economy and society: North American Envirothon 2016

Envirothon is the world's largest high school natural resources education competition. As a component of the ISC's ongoing education strategy, the ISC was a gold co-sponsor of the 2016 North American Envirothon which took place in Peterborough, Ontario from July 24-29, 2016 at Trent University.

Since the inception of Envirothon, more than



**MILLION PEOPLE HAVE PARTICIPATED IN THE PROGRAM!**

Each year, **50,000 people** from **4,000 public and private high schools** across North America participate and the competition culminates in the North American Envirothon event. **This exciting finale brought 53 teams and over 500 visitors from over 50 states, provinces and territories together** to compete for the championship title.

### ISC In Action:

The Invasive Species Centre participated in the Envirothon competition by:



- ◆ Drafted invasive species special topic title and learning objectives
- ◆ Reviewed study guide and test
- ◆ Prepared and delivered:
  - ◆ opening remarks
  - ◆ special topic presentation on invasive species management
  - ◆ problem scenario where students presented their solutions to panel of experts
  - ◆ workshop about aquatic invasive species

ENVIROTHON



**Through Envirothon, students gain a better understanding of the challenges and management approaches needed to reduce invasive species impacts and ensure a healthy environment for future generations**

## Highlighting local science and technology: Sault Ste. Marie Science Festival

The Sault Ste. Marie Science Festival (April 2016) highlighted local natural and applied sciences and technologies and the ISC brought an invasive species focus to the festivities. With Science North and six local partners, we planned a week full of exciting events for the community. The ISC had a booth at the Science Carnival for families and at the Hanger After Dark event for adults, educating 1,740 visitors about invasive species and their impacts.



In March 2017, the Science Festival won the Festivals and Events Ontario Best New Festival or Event Under \$100,000 Award



# Financials

## CHANGES IN NET ASSETS

The ISC focuses on mission and organizational sustainability through careful planning of net assets, to levels appropriate for a mid-sized non-profit organization.



## REVENUE



### Revenue Composition

◆ Federal Government	\$255,346	15%
◆ Provincial Government	\$1,131,384	66%
◆ Foundations	\$161,517	9%
◆ Events	\$142,545	8%
◆ Other	\$27,560	2%

TOTAL \$1,718,352

The ISC continues to diversify its funding mix to **ensure long-term viability**.

## EXPENSES



### Expenses Composition

◆ Programs	\$1,449,208	87%
◆ Management and General	\$120,027	13%

TOTAL \$1,569,235

The ISC demonstrates managerial efficiency and commitment to mission with **87% spent on invasive species program work**.

# Our People – Board of Directors



**Dr. Kandyd Szuba**  
Chair



**Dr. Brendon Larson**  
Chair (to June 2016)



**Mr. Angelo Lombardo**  
Vice Chair



**Dr. Tat Smith**  
Director



**Mr. Ian Buchanan**  
Director



**Dr. Margaret (Peggy) Smith**  
Director (to June 2016)



**Dr. Jim Brandle**  
Director



**Mr. Rob Keen**  
Director



**Ms. Mary Bea Kenny**  
Director



**Mr. Bob Lambe**  
Director



**Mr. Dave Burden**  
Ex-officio Board Member -  
DFO - (to December 2016)



**Mr. James Crawford**  
Ex-officio Board Member -  
CFIA



**Mr. Jason Travers**  
Ex-Officio Board Member -  
MNR



**Mr. Dale Nicholson**  
Ex-officio Board Member -  
DFO



**Ms. Tracey Cooke**  
Ex-officio Board Member -  
Executive Director



**Dr. David Nanang**  
Ex-officio Board Member -  
NRCan

## Expert Advisors

- ◆ **Jeremy Downe**  
Ontario Ministry of  
Natural Resources and  
Forestry
- ◆ **Francine MacDonald**  
Ontario Ministry of  
Natural Resources and  
Forestry
- ◆ **Erin Bullas-Appleton**  
Canadian Food  
Inspection Agency
- ◆ **Dr. Taylor Scarr**  
Natural Resources  
Canada
- ◆ **Jeff Brinsmead**  
Ontario Ministry of  
Natural Resources and  
Forestry
- ◆ **Gavin Christie**  
Fisheries and Oceans  
Canada
- ◆ **Becky Cudmore**  
Fisheries and Oceans  
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- ◆ **Dr. Richard Wilson**  
Ontario Ministry of  
Natural Resources and  
Forestry
- ◆ **Matt Smith**  
Ontario Ministry of  
Natural Resources and  
Forestry
- ◆ **Dr. Michael Irvine**  
Ontario Ministry of  
Natural Resources and  
Forestry
- ◆ **Sarah Neinhaus**  
Ontario Ministry of  
Natural Resources and  
Forestry
- ◆ **Julia Colm**  
Fisheries and Oceans  
Canada
- ◆ **Hilary Prince**  
Fisheries and Oceans  
Canada



The Invasive Species Centre thanks all supporters, partners and collaborators for helping us have a successful year. Our network is vital to the Invasive Species Centre achieving its mission to connect stakeholders, knowledge and technology to prevent and reduce the spread of invasive species that harm Canada's environment, economy and society. Without you, we would not be able to offer the quality programs that we do.

**Thank you!**



## Supporters for 2016/2017 Annual Report

### Funders and Major Clients

Ontario Ministry of Natural Resources and Forestry  
 Fisheries and Oceans Canada  
 Ontario Trillium Foundation  
 Northern Ontario Heritage Fund Corporation  
 Canadian Food Inspection Agency  
 Natural Resources Canada

### Partners and Collaborators

Alberta Environment and Parks  
 Algoma Power  
 Algoma University  
 Anishinabek/Ontario Fisheries Resource Centre  
 Aquatic Ecosystem Restoration Foundation  
 ASI Water  
 Atlantium Technologies  
 Bioforest Technologies Inc.  
 Bruce Power  
 Burlington Horticultural Society  
 Canada National Seed Bank, Natural Resources Canada  
 Canadian Bushplane Heritage Centre  
 Canadian Council of Forest Ministers  
 Canadian Food Inspection Agency

Canadian Institute of Forestry  
 Canadian National Collection of Insects, Arachnids, and Nematodes  
 City of Thunder Bay  
 Clergue Forest Management  
 Colorado State University  
 Conservation Halton  
 Credit Valley Conservation  
 Delta Waterfowl  
 Ducks Unlimited Canada  
 Eco-superior  
 Entomica  
 ESL Technology  
 European Commission  
 Fisheries and Oceans Canada  
 Forest Gene Conservation Association  
 Forests Ontario  
 Freshwater Futures  
 Great Lakes Fishery Commission  
 Great Lakes Power  
 Health Canada, Pest Management Regulatory Agency  
 ICAIS Technical Program Committee  
 Independent First Nations Alliance  
 Indiana Invasive Species Council  
 International Joint Commission  
 Kensington Conservancy  
 Lakehead University  
 Manitoba Environmental Industries Association  
 Manitoba Hydro

Marrone Bio Invasions  
 National Oceanic and Atmospheric Administration  
 Natural Resources Canada, Canadian Forest Service  
 Natural Resources Canada, Canadian Wood Fiber Center  
 New York Invasive Species Information  
 Oakville Green  
 Ohio Department of Natural Resources Division of Wildlife  
 Ontario Federation of Anglers and Hunters  
 Ontario Invasive Plant Council  
 Ontario Ministry of Natural Resources and Forestry  
 Ontario Ministry of Natural Resources, Aviation, Forest Fire and Emergency Services  
 Ontario Parks  
 Ontario Power Generation  
 Pacific States Marine Fisheries Commission  
 Province of Manitoba  
 Research Institute for Nature and Forest (INBO)  
 Research Manitoba  
 Royal Ontario Museum  
 Sault College  
 Sault Naturalists  
 Sault Ste. Marie Innovation Centre  
 Sault Ste. Marie Region Conservation Authority  
 Science North  
 Sea Lamprey Control  
 Thessalon First Nation

Thunder Bay Hydro  
 Toronto Region Conservation Authority  
 Toronto Zoo  
 Trent University  
 U.S. Army Corp of Engineers  
 U.S. Army Research and Development Center  
 U.S. Department of Agriculture  
 U.S. Environmental Protection Agency  
 U.S. Fish and Wildlife Service  
 U.S. Geological Survey  
 University of British Columbia  
 University of Florida  
 University of Toronto  
 University of Toronto (Scarborough)  
 University of Waterloo  
 Vineland Innovation Centre  
 Willow Beach Field Naturalists  
 York Region

### Networks

Canadian Council on Invasive Species  
 Great Lakes Executive Committee  
 Great Lakes Panel on Aquatic Invasive Species  
 Invasive Mussel Collaborative  
 North American Invasive Species Network  
 Northwestern Ontario Emerald Ash Borer Task Force  
 Ontario Biodiversity Council

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